What is claimed is:

- 1. A method for loading a portable executable (PE) image, the method comprising:
- 5 determining whether a PE image for a platform firmware runtime service includes a discardable section;

loading part of the PE image into runtime memory to be used by the platform firmware; and

in response to determining that the PE image includes a discardable section, omitting at least part of the discardable section when loading the PE image into the runtime memory.

- A method according to claim 1, further comprising:
 loading the discardable section into boot-time memory to be used by the
 platform firmware.
 - A method according to claim 1, further comprising:
 using an alignment granularity of less than one kilobyte when loading the
 PE images into the runtime memory.

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- A method according to claim 1, further comprising:
 using an alignment granularity of less than one hundred bytes when
 loading the PE images into the runtime memory.
- 5. A method according to claim 1, further comprising: pre-allocating an area of runtime memory for PE images; and loading sections from multiple PE images into the pre-allocated area of runtime memory.
- A method according to claim 1, further comprising:
 pre-allocating an area of runtime memory for PE images; and

loading sections from multiple PE images into the pre-allocated area of runtime memory; and

using an alignment granularity of less than one kilobyte when loading the PE images into the pre-allocated area of runtime memory.

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 A method according to claim 1, further comprising: recording a runtime memory size in association with a first boot process;
 and

pre-allocating an area of runtime memory for PE images in association with 10 a subsequent boot process, based at least in part on the recorded runtime memory size.

- 8. A method according to claim 1, further comprising: recording a runtime memory size in association with a first boot process; pre-allocating an area of runtime memory for PE images in association with a subsequent boot process, based at least in part on the recorded runtime
- loading sections from multiple PE images into the pre-allocated area of runtime memory.

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memory size; and

- A method according to claim 1, further comprising: recording a first runtime memory size in association with a first boot process;
- pre-allocating an area of runtime memory for PE images in association with 25 a subsequent boot process, based at least in part on the recorded runtime memory size;

loading sections from multiple PE images into the pre-allocated area of runtime memory;

determining how much of the pre-allocated area of runtime memory was 30 used; and

recording a second runtime memory size in association with the second boot process, based at least in part on the determination of how much of the pre-allocated area of runtime memory was used.

10. A method according to claim 1, wherein the PE image comprises header information, the method further comprising:

omitting at least part of the header information when loading the PE image 5 into the runtime memory.

11. A method for creating a portable executable (PE) image, the method comprising:

receiving an object file at a linker, the object file containing multiple discardable sections with instructions for performing boot-time operations and a section with instructions for performing runtime operations; and

generating an executable PE image, based at least in part on the object file;

wherein the operation of generating the executable PE image comprises grouping the multiple discardable sections together in the PE image.

12. A method according to claim 11, wherein the operation of grouping the multiple sections with instructions for performing boot-time operations together in the PE image comprises:

grouping the multiple discardable sections together below the section with instructions for performing runtime operations.

13. A method for booting a processing system, the method comprising: retrieving a portable executable (PE) image for a runtime service to be provided by platform firmware for the processing system;

determining whether the PE image includes a discardable section;

in response to determining that the PE image includes a discardable section, loading the discardable section into boot-time memory to be used by the platform firmware; and

loading part of the PE image into runtime memory to be used by the platform firmware; but

omitting at least part of the discardable section when loading the PE image into the runtime memory.

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- 14. A method according to claim 13, further comprising:
 pre-allocating an area of runtime memory for PE images;
 loading sections from multiple PE images into the pre-allocated area of
 runtime memory; and
 - using an alignment granularity of less than four kilobytes when loading the PE images into the pre-allocated area of runtime memory.
- 15. A method according to claim 13, wherein the PE image comprises header10 information, the method further comprising:
 - omitting at least part of the header information when loading part of the PE image into the runtime memory.
- 16. An apparatus containing control logic for providing a runtime service for aprocessing system, the apparatus comprising:
 - a machine-accessible medium; and
 - a portable executable (PE) image in the machine-accessible medium, the PE image for providing a runtime service for the processing system, wherein the PE image comprises:
- a section with instructions for performing runtime operations; and multiple discardable sections with instructions for performing boot-time operations, wherein the multiple discardable sections are grouped together in the PE image.
- 25 17. An apparatus according to claim 16, wherein the multiple discardable sections are grouped together below the section with instructions for performing runtime operations.

18. A processing system with control logic for managing PE images, the processing system comprising:

a processor;

a machine-accessible medium responsive to the processor;

instructions in the machine-accessible medium which, when executed by the processor, implement an image loader; and

a portable executable (PE) image in the machine-accessible medium, the PE image for providing a runtime service in platform firmware for the processing system;

10 wherein the PE image comprises:

a section with instructions for performing runtime operations; and multiple discardable sections with instructions for performing boot-time operations; and

wherein the multiple discardable sections are grouped together in the PE image.

19. A processing system according to claim 18, wherein the image loader comprises control logic:

to determine whether the PE image includes a discardable section;

to load part of the PE image into runtime memory to be used by the platform firmware; and

in response to determining that the PE image includes a discardable section, to omit at least part of the discardable section when loading the PE image into the runtime memory.

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20. A processing system according to claim 19, wherein the image loader comprises control logic to load the discardable section into boot-time memory to be used by the platform firmware.

21. A processing system according to claim 19, wherein the image loader comprises control logic:

to pre-allocate an area of runtime memory for PE images;

to load sections from multiple PE images into the pre-allocated area of

5 runtime memory; and

to use an alignment granularity of less than four kilobytes when loading the PE images into the pre-allocated area of runtime memory.